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Dear Professor and Professor

Gödel's incompleteness theorems suggest humans have to use multiple world models, metaphysics from humans does not work, there is no meta-solution from humans to any problem even potentially as said by Demis Hassabis.

People are not able to unify classic physics and quantum physics yet, not able to unify physical sciences and life sciences, or physical sciences and intelligence sciences, or life sciences and intelligence sciences, etc.

So, some laws in life sciences or intelligence sciences could not be simplified as physical sciences from humans. There are severe problems in human concepts like God's computer or God's time, etc.

I wrote some comments about professor Gerard't Hooft's "Free Will in the Theory of Everything" in the email below. What are your opinions about these?

Google admits LaMDA is not sentient. Are Google Brain and Waymo driverless cars

## sentient sufficiently?

There are severe problems in the definitions of Driving Automation standards. Better definitions and more effective testing are needed, which are possible only if some fundamental researches have been done first.

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From: lifan gu <gulifan@hotmail.com>

Sent: Wednesday, December 21, 2022 6:12 AM

To: g.thooft@uu.nl < g.thooft@uu.nl > Cc: lifan gu < gulifan@hotmail.com > Subject: Scientific Logic and Free Will

Dear Professor Gerard 't Hooft,

I saw your article Free Will in the Theory of Everything, and like to see what we could agree with.

Do you agree that this article is just like a blind man feels an elephant? Especially because in your Rules #6 and #7, you used languages like God's computer and computer program. When talking about God, we should avoid any traps or narrow mindsets like Turing Machine or computers. God's mind should be much greater than an elephant, a computer, or any types of Turing Machine.

I agree with that Free Will cannot be derived from current physical theories from h uman. However, this does not exclude the possibilities of Free Will. Actually, the lif e evolution theory cannot be derived from current physical theories from human, e ven classical physics or relativistic physics cannot be derived from current quantu m physics from human yet.

In your Demand #2, you talked about causality, which needs to separate past from future. Could human understand God's time?

In your Demand #3 "Not all events in the past, but only a few of them should dictat e an event in the presence". Could human fully understand God's selection?

When talking about logic, we need understand the problems in various mathematic al logics and philosophical logics, and develop a new scientific logic to understand the powers and limits of human sciences. Scientific logic should study the possible structures of Free Will and design experiments about it.

Human intelligence experiences the development from Historia Naturalis to Philos ophiae Naturalis, and to Scientia Naturalis. Unfortunately, current testing of artific ial intelligence, including driverless cars, is based on historical methods, which wo uld cause severe problems in future.

Thank you for mentioning that after most quantum transformations, reality is repla

ced by the more abstract notion of a wave function, which regains continuity.
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